

### **ABSTRACT**

The orientation of a camera associated with a first image is determined based on a shape of a perimeter of a corrected version of the first image. The corrected version of the first image has less perspective distortion relative to a reference image than the first image.

- 5 The shape of the perimeter of the corrected version of the first image is also different from the shape of the perimeter of the first image. The first image is then projected onto a surface based on the orientation of the camera.